



Safety Data Sheet

Product No. 18393 Paraplast® Plus

Issue Date (03-06-15)

Review Date (05-15-15)

Section 1: Product and Company Identification

Product Name: Paraplast® Plus

Synonym: None

Company Name

Ted Pella, Inc., P.O. Box 492477, Redding, CA 96049-2477

Domestic Phone (800) 237-3526 (Mon-Thu. 6:00AM to 4:30PM PST; Fri 6:00AM to 4:00PM PST)

International Phone (01) (530) 243-2200 (Mon-Thu. 6:00AM to 4:30PM PST; Fri 6:00AM to 4:00PM PST)

Chemtrec Emergency Number 1-800-424-9300 24 hrs a day.

Section 2: Hazard Identification

GHS Pictograms: Not classified as a hazardous substance or mixture.

GHS Categories: Not a hazardous substance or mixture.

Hazards not otherwise classified (HNOC) or not covered by GHS: None

Signal Word: NA

Health Effects:

NFPA Hazard Rating: Health: 0; Fire: 1; Reactivity: 0

HMIS® Hazard Rating: Health: 0; Fire: 1; Reactivity: 0

(0=least, 1=Slight, 2=Moderate, 3=High, 4=Extreme)

Results of PBT and vPvB assessment: A chemical safety assessment not required/not conducted.

PBT: ND

vPvB: ND

Emergency overview:

Appearance: Translucent waxy pellet.

Immediate effects: No immediate treatment is normally required. Contact with molten product may cause thermal burns. Vapors or fumes from molten material may cause eye and respiratory tract irritation.

Potential health effects

Primary Routes of entry: Skin and eye contact, inhalation.

Signs and Symptoms of Overexposure: Upper respiratory tract irritation and nausea.

Eyes: Contact may cause slight, transient irritation. Wax fumes may cause eye irritation with redness and tearing. Contact with molten product may cause thermal burns.

Skin: Contact with molten product may cause thermal burns.

Ingestion: Small amounts are not anticipated to cause adverse effects. Large quantities may cause obstruction of the bowel.

Inhalation: Inhalation of fumes may cause irritation of the eyes, nose and upper respiratory tract. Symptoms include coughing, sneezing and sore throat.

Chronic Exposure: ND

Chemical Listed As Carcinogen Or Potential Carcinogen: No

See Toxicological Information (Section 11)

Potential environmental effects

See Ecological Information (Section 12)

Section 3: Composition / Information on Ingredients

Principle Component(s) (chemical and common name(s)) (Cas. No)	%	OSHA PEL mg/m3	ACGIH TLV mg/m3	NTP Carcinogen	IARC Carcinogen	OSHA regulated Carcinogen
Paraffin (Paraffin wax fumes) (Proprietary)	>75	NE	2	No	No	No
Dimethylsulfoxide (DMSO) (67-68-5) EC-No 200-664-3	<2	NE	250 ppm	No	No	No

* The Occupational Safety and Health Administration (OSHA) and the American Conference of Governmental Industrial Hygienists (ACGIH) have not established exposure limits for this product. However, exposure limits do exist for the hazardous ingredient, which is present at greater than 98%: Paraffin fume.

Section 4: First Aid Measures

If accidental overexposure is suspected

Eye(s) Contact: Flush eyes with water, holding the eyelids apart. Get medical attention if irritation persists. If product is hot, flush eyes with water, holding the eyelids apart. Get immediate medical attention.

Skin Contact: Wash skin with soap and water after handling. If product is molten, cool skin with large amounts of water. Do not remove material bonded to the skin. Do not apply salves or ointment. Get medical attention. Launder contaminated clothing before re-use.

Inhalation: If breathed in, move person into fresh air. If not breathing, give artificial respiration.

Ingestion: If small quantities are swallowed, rinse out mouth with water. Do not induce vomiting. Never give anything by mouth to an unconscious or drowsy person. If large amounts are swallowed or if irritation or discomfort occurs, get medical attention.

Note to physician

Treatment: ND

Medical Conditions generally Aggravated by Exposure: ND

Section 5: Fire Fighting Measures

Flash Point: 390° F (199° C) Methods: Closed Cup.

Flammable Limits: ND

Auto-ignition point: 473° F (245° C) (for 100% paraffin).

Fire Extinguishing Media: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide. Use any media that is suitable for the surrounding fire.

Special Fire Fighting Procedures: Wear self-contained breathing apparatus and protective clothing for firefighting. Determine the need to evacuate or isolate the area according to your local emergency plan. Use water spray to keep fire exposed containers cool.

Unusual Fire and Explosion Hazards: Not classified as flammable but product will burn under fire conditions. Reaction with oxidizers may generate heat and cause fire.

Hazardous combustion products: Fires of paraffin wax may produce toxic fumes: carbon monoxide, carbon dioxide, oxides of sulfur, wax fumes and smoke.

DOT Class: Not regulated.

Section 6: Accidental Release Measures

Steps to be taken in Case Material is Released or Spilled:

Personal Precautions, protective equipment and emergency procedures: Wear appropriate protective equipment. Avoid contact with molten material. Avoid dust formation. Avoid breathing vapors, mist or gas.

Environmental precautions: Prevent entry in storm sewers and waterways. Report spill as required by local and federal regulations.

Methods and materials for containment and cleaning up: At ambient temperatures, pick up material and place into a container for disposal. If molten, allow material to solidify and cool. Pick up or scrape up and place into a container for disposal. Refer to Section 8 for personal protective equipment.

Waste Disposal Methods: Dispose of waste according to Federal, State and Local Regulations.

Section 7: Handling and Storage

Precautions to be taken in Handling and Storage: Avoid contact with molten material.

Avoid breathing fumes from heated material. Use with adequate ventilation. Protect containers from physical damage. Store in a cool area. Keep containers closed when not in use. Empty containers retain product residues. Do not cut, weld, braze, etc. on or near empty containers. Follow all SDS precautions in handling empty containers.

Storage temperature: Room temperature.

Storage Pressure: ND

Section 8: Exposure Controls / Personal Protection

Control Parameters

Components with workplace control parameters:

Chemical Name	US OEL	EU IOEL	UK OEL	Germany OEL
Paraffin wax fumes	2 mg/m ³ TWA ACGIH TLV	None Est	2 mg/m ³ TWA 6 mg/m ³ STEL	None Est
Dimethyl Sulfoxide	250 ppm TWA ACGIH TLV	None Est	None Est	None Est

Engineering Controls

Ventilation required: Well-ventilated.

Personal Protection Equipment

Respiratory protection: None should be needed for normal use. Where protection from nuisance levels of dusts are desired, use type N95 (US) or type P1 (EN 143) dust masks. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Protective gloves/Skin protection: Clothing with long sleeves should be worn when working with molten product. Gloves are not needed if handling product at ambient temperatures. Wear insulated gloves when handling hot material.

Eye protection: None needed if handling product at ambient temperatures. Wear safety glasses when handling hot material.

Additional clothing and/or equipment: Suitable washing facilities should be available.

Control of environmental exposure: Do not let product enter drains.

Exposure Guidelines

See Composition/Information on Ingredients (Section 3)

Section 9 Physical and Chemical Properties

Appearance and Physical State: Waxy pellet, colorless, translucent.

Odor (threshold): Odorless

Specific Gravity (H₂O=1): 0.80

Vapor Pressure (mm Hg): NA

Vapor Density (air=1): NA

Percent Volatile by volume: ND

Evaporation Rate (butyl acetate=1): NA

Boiling Point: NE

Freezing point / melting point: 56 °C (132.8 °F)

pH: ND

Solubility in Water: Insoluble

Molecular Weight: Mixture

Section 10: Stability and Reactivity

Stability: Stable under recommended storage conditions.

Conditions to Avoid: Extreme heat.

Materials to Avoid (Incompatibility): Strong oxidizing agents, strong acids, acid chlorides, strong reducing agents, phosphorous halides.

Hazardous Decomposition Products: Thermal breakdown of this product during fire or

very high heat conditions may evolve the following decomposition products. Oxides of carbon, oxides of sulfur, wax fumes, and smoke.

Hazardous Polymerization: Will not occur.

Section 11: Toxicological Information

Results of component toxicity test performed:

Acute toxicity:

Paraffin Wax: LD50 oral rat >5000 mg/kg; LD50 skin rat >5000 mg/kg

Dimethyl Sulfoxide: LD50 oral rat 14,500-28,300 mg/kg; LC50 inhalation rat - No mortality at 2,900 mg/m³; LD50 dermal rat 40,000 mg/kg

Skin corrosion/irritation: Wax: negligible skin irritant based on studies with rabbits for similar materials. Dimethyl sulfoxide: mild irritant in humans.

Eye damage/ irritation: Wax: may cause mild, transient irritation based on studies with rabbits for similar materials. Dimethyl sulfoxide: non-irritating in laboratory animals.

Respiratory Irritation: No data available for mixture. High concentrations of wax fumes may be irritating to the respiratory system.

Respiratory Sensitization: No data available. None of the components are respiratory sensitizers.

Skin Sensitization: No data available for mixture. Wax: non-sensitizing in tests with laboratory animals and humans. Dimethyl sulfoxide: negative in Buehler tests.

Germ Cell Mutagenicity: Wax: not mutagenic in in-vitro studies. None of the components are germ cell mutagens.

Dimethyl sulfoxide: negative in in-vitro and in-vivo studies.

Carcinogenicity: No data available for mixture. Wax: Not carcinogenic in lifetime animal skin painting or oral feeding studies. None of the components of this product are listed as carcinogens by OSHA, ACGIH, IARC, NTP, or the EU Dangerous Substances Directive.

Reproductive Toxicity: No data available for mixture. Dimethyl sulfoxide: not teratogenic to animals at doses that are not maternally toxic.

Specific Target Organ Toxicity: Single Exposure: None known

Repeat Exposure: Wax: High oral doses in one rat strain (F-344) resulted in microscopic inflammatory changes (micro granulomas) in liver, spleen, and lymph nodes, some increased organ weights, inflammation of the cardiac mitral valve, and accumulation of saturated mineral hydrocarbons in certain tissues. Dimethyl sulfoxide: In a 13 week oral study in rats a LOEL of 8800 mg/kg/day was observed with the target organ the liver. In a 13 week rat inhalation study the NOAEL was 0.964 mg/L (302 ppm).

Human experience: ND

This product **does not** contain any compounds listed by NTP or IARC or regulated by OSHA as a carcinogen.

Section 12: Ecological Information

Ecological Information:

Toxicity: No data available for mixture. Dimethyl sulfoxide: LC50 fish 32,500-43,000 mg/L/96 hr.; EC50 growth inhibition for algae 0.4-4%. Not expected to be harmful to aquatic organisms.

Persistence and degradability: Wax: Expected to be inherently biodegradable. Dimethyl sulfoxide: not readily biodegradable.

Bio accumulative Potential: Wax: Has the potential to bio accumulate, however metabolism or physical properties may reduce the bio concentration or limit bioavailability. Dimethyl sulfoxide: no bioaccumulation expected based on log Kow of -2.03.

Mobility in Soil: Wax: Low solubility and floats and is expected to migrate from water to the land. Expected to partition to sediment and wastewater solids.

Chemical Fate Information: ND

Section 13 Disposal Considerations

RCRA 40 CFR 261 Classification: None

Federal, State and local laws governing disposal of materials can differ. Ensure proper disposal compliance with proper authorities before disposal.

Section 14: Transportation Information

US DOT Information: Proper shipping name: Not regulated.

IATA: Proper shipping name: Not regulated.

Marine Pollutant: No

Canadian TDG: Not regulated.

IMDG Page: Not dangerous goods.

Section 15: Regulatory Information

United States Federal Regulations

MSDS complies with OSHA's Hazard Communication Rule 29, CFR 1910.1200.

SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

SARA 311/312: No SARA Hazards

RCRA: Not listed.

TSCA: All components are listed.

CERCLA: Not listed.

State Regulations

New Jersey Right To Know Components: Dimethyl sulfoxide (CAS-No. 67-68-5)

Revision Date: 2007-03-01

California Proposition 65: This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

International Regulations

Canada WHMIS: Not a controlled product.

Europe EINECS Numbers: Paraffin wax EINECS#: Proprietary

Dimethyl sulfoxide: EINECS#: 200-664-3.

Section 16: Other Information

Label Information: ND

European Risk and Safety Phrases: ND

European symbols needed: ND

Canadian WHMIS Symbols: Not a controlled product.

Abbreviations used in this document

NE= Not established

NA= Not applicable

NIF= No Information Found

ND= No Data

Disclaimer

Ted Pella, Inc. makes no warranty of any kind regarding the information furnished herein. Users should independently determine the suitability and completeness of information from all sources. While this data is presented in good faith and believed to be accurate, it should be considered only as a supplement to other information gathered by the user. It is the User's responsibility to assure the proper use and disposal of these materials as well as the safety and health of all personnel who may work with or otherwise come in contact with these materials.

SDS Form 0013F1V4